

Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

1-11 (Canceled).

1 12 (Currently amended). A telephone controller in a voice over Internet
2 Protocol (VoIP) system that controls plural telephone sets via a LAN
3 connected to the Internet, comprising:
4 a receiver that receives a message containing a predetermined
5 header sent via the LAN by one of the telephone sets which, when
6 connected to the LAN, requests for requesting an IP address to be allocated
7 for the requesting telephone set;
8 a header analysis circuit connected to the receiver and which
9 analyzes the message to determine that the received message contains the
10 predetermined header;
11 a control circuit connected to the header analysis circuit and
12 receiving notification from the header analysis circuit that the received
13 message contains the predetermined header and, in response, the control
14 circuit checks a set of extensions stored in a table and assigns a domain
15 name of the telephone controller to a selected extension and generates an
16 ID comprising a the domain name of the telephone controller and an the
17 selected extension of for the requesting telephone set in case the message
18 for requesting the IP address is received;
19 an IP address allocation circuit connected to receive from the
20 control circuit the ID and, in response, that the IP address allocation circuit
21 allocates the an IP address of for the requesting telephone set; and
22 a memory including a table, the control circuit receiving the
23 allocated IP address from the IP address allocation circuit and that stores
24 an storing the IP address and the ID, comprising a the domain name, an
25 and the extension, and the IP address in the table; and
26 a notifying unit that notifies said control circuit notifying the

27 requesting telephone set of the ID, the extension and the IP address for the
28 requesting telephone set, whereby the telephone set automatically acquires
29 its ID, its IP address, and its extension from the telephone controller only
30 by connecting the telephone set to the LAN.

Claims 13–18 (Canceled).

1 19 (New). The telephone controller as recited in claim 12, wherein the ID
2 includes, in addition to the domain name of the telephone controller and
3 the selected extension for the requesting telephone set, a name of a user of
4 the telephone set.

1 20 (New). The telephone controller as recited in claim 19, wherein the ID
2 includes plural user names assigned to a same extension.

1 21 (New). The telephone controller as recited in claim 12, wherein the
2 control circuit selects the extension.

1 22 (New). The telephone controller as recited in claim 12, wherein a user
2 of the telephone set selects the extension subject to the selected extension
3 not already being registered in the table when the table is checked by the
4 control circuit.

1 23 (New). A telephone communication system, comprising:
2 a telephone controller, a plurality of telephone sets, and a local area
3 network (LAN) which is connected to the Internet and to which each of the
4 telephone controller and the plurality of telephone sets are connected;
5 wherein the control circuit includes:
6 a receiver that receives a message containing a predetermined
7 header sent via the LAN by one of the telephone sets which,
8 when connected to the LAN, requests an Internet Protocol
9 (IP) address to be allocated for the requesting telephone set;

10 a header analysis circuit connected to the receiver and which
11 analyzes the message to determine that the received
12 message contains the predetermined header;
13 a controller control circuit connected to the header analysis circuit
14 and receiving notification from the header analysis circuit
15 that the received message contains the predetermined
16 header and, in response, the controller control circuit checks
17 a set of extensions stored in a table and assigns a domain
18 name of the telephone controller to a selected extension and
19 generates an ID comprising the domain name of the
20 telephone controller and the selected extension for the
21 requesting telephone set;
22 an IP address allocation circuit connected to receive from the
23 controller control circuit the ID and, in response, the IP
24 address allocation circuit allocates an IP address for the
25 requesting telephone set; and
26 a memory including a table, the controller control circuit receiving
27 the allocated IP address from the IP address allocation
28 circuit and storing the IP address and the ID, comprising the
29 domain name and the extension, in the table;
30 said controller control circuit notifying the requesting telephone set
31 of the ID, the extension and the IP address for the
32 requesting telephone set;
33 and wherein at least one of the plurality of telephone sets includes:
34 a telephone set control circuit which generates a message
35 containing the predetermined header to the telephone
36 controller requesting an IP address be allocated to said at
37 least one said plurality of telephone sets; and
38 a memory to which the telephone set control circuit writes the ID,
39 the extension and the IP address as notified by the controller
40 control circuit,
41 whereby said at least one of the plurality of telephone sets automatically

42 acquires its ID, its IP address, and its extension from the telephone
43 controller only by connecting the telephone set to the LAN.

1 24 (New) The telephone communication system as recited in claim 23,
2 wherein said at least one of the plurality of telephone sets further
3 comprises a display circuit connected to and responsive to the telephone
4 set control circuit for displaying the extension of the telephone set when
5 the control circuit receives notification from the controller control circuit.

1 25 (New). The telephone controller as recited in claim 23, wherein the ID
2 includes, in addition to the domain name of the telephone controller and
3 the selected extension for the requesting telephone set, a name of a user of
4 the telephone set.

1 26 (New). The telephone controller as recited in claim 25, wherein the ID
2 includes plural user names assigned to a same extension.

1 27 (New). The telephone controller as recited in claim 23, wherein the
2 control circuit selects the extension.

1 28 (New). The telephone controller as recited in claim 23, wherein a user
2 of the telephone set selects the extension subject to the selected extension
3 not already being registered in the table when the table is checked by the
4 control circuit.